Extraflame®

Riscaldamento a Pellet

LCD THERMO PRODUCTS USER MANUAL

DUCHESSA IDRO - DUCHESSA IDRO STEEL - ELISIR IDRO
MELINDA IDRO - MELINDA IDRO STEEL- ISIDE IDRO - GIORDANA IDRO

ENGLISH/INGLESE

We thank you for having chosen our company; our product is a great heating solution developed from the most advanced technology with top quality machining and modern design, aimed at making you enjoy the fantastic sensation that the heat of a flame gives, in complete safety.

Extraflame S. p. A.

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WARNINGS

The instruction manual is an integral part of the product: make sure that it always accompanies the appliance, even if transferred to other owners or user or is transferred to another place. If it is damaged or lost,request another copy from the area technician. This product must be destined for the use for which it has been expressly realised. The manufacturer is exempt from any liability, contractual and extracontractual, for injury/damage caused to persons/animals and objects, due to installation, adjustment and maintenance errors and improper use. **Installation must be performed by qualified staff, which assumes complete responsibility for the definitive installation and consequent good functioning of the product installed. It is necessary to bear in mind all laws and national, regional, provincial and town council Standards present in the country the appliance has been installed.**
Extraflame S.p.A. cannot be held responsible for the failure to comply with such precautions.

After removing the packaging, ensure that the content is intact and complete. If not so, contact the dealer where the appliance was purchased.
All electric components that make up the product must be replaced with original spare parts exclusively by an authorised after-sales centre, thus guaranteeing correct functioning.

SAFETY

- The stove must not be used by persons (including children) with reduced physical, sensorial and mental capacities or who are unskilled persons, unless they are supervised and trained regarding use of the appliance by a person responsible for their safety.
- Children must be controlled to ensure that they do not play with the appliance.
- Do not touch the stove when you are barefoot or when parts of the body are wet or humid.
- The safety and adjustment devices must not be modified without the authorisation or indications of the manufacturer.
- Do not pull, disconnect, twist electric cables leaving the stove, even if disconnected from the electric power supply mains.
- It is advised to position the power supply cable in a way that it does not come into contact with hot parts of the appliance.
- The power supply plug must be accessible after installation.
- Do not close or reduce the dimensions of the airing vents in the place of installation. The airing vents are indispensable for correct combustion.
- Do not leave the packaging elements within reach of children or unassisted disabled persons.
- The hearth door must always be closed during normal functioning of the product.
- When the appliance is functioning and hot to the touch, especially all external surfaces, attention must be paid
- Check for the presence of any obstructions before switching the appliance on following a prolonged standstill period.
- The stove has been designed to function in any climatic condition (also critical). In particularly adverse conditions (strong wind, freezing) safety systems may intervene that switch the stove off. If this occurs, contact the technical after-sales service and always disable the safety system.
- If the flue should catch fire, be equipped with suitable systems for suffocating the flames or request help from the fire service.
- This appliance must not be used to burn waste
- Do not use any inflammable liquids for ignition
- During the filling phase do not allow the bag of pellets to come into contact with the product
- The majolicas are top quality artisan products and as such can have micro-dots, crackles and chromatic imperfections. These features highlight their valuable nature. Due to their different dilation coefficient, enamel and majolica produce crackling,. which demonstrate their effective authenticity. To clean the majolicas, it is recommended to use a soft, dry cloth. If a detergent or liquid is used, the latter could penetrate inside the crackles, highlighting the same.

ROUTINE MAINTENANCE

Based on the Decree 22 January 2008 n°37 art.2, routine maintenance means interventions aimed at reducing degradation from normal use, as well as dealing with accidental events entailing the need of first interventions, which however do not modify the structure of the system upon which one is intervening or its intended use according to the prescriptions foreseen by technical standards in force and by the manufacturer's use and maintenance booklet.

HYDRAULIC SYSTEM

Certain concepts referring to the Italian UNI 10412-2 (2009) Standard are described in this chapter.
As previously described, when installing, all national, regional, provincial and town council Standards in force provided by the country in which the appliance has been installed must be complied with.

SAFETY DEVICES
CIRCUIT BOARD: intervenes directly by sending the product into alarm conditions until complete cooling, in the case of: breakage of flue gas motor, pellet feed motor breakage, black out (if more than 10 seconds), no ignition
FLOW SENSOR: in the event of inadequate flow, it takes the machine to alarm conditions
F2.5 A 250V FUSE (STOVES): protect the machine from abrupt power surges
85°C CALIBRATED MECHANICAL BULB WITH MANUAL REARM: intervenes by blocking fuel feed whenever the pellet tank t° reaches the limit of 85°C. **Rearm must be performed by qualified staff and/or the manufacturer's technical after-sales assistance.**
100°C CALIBRATED MECHANICAL BULB WITH MANUAL REARM: intervenes by blocking the fuel feed whenever the t° of the water inside the product is near to 100°. **Rearm must be performed by qualified staff and/or the manufacturer's technical after-sales assistance.**
MINIMUM AND MAXIMUM PRESSURE SWITCH: intervenes in the event of inadequate water pressure. **Rearm must be performed by qualified staff and/or the manufacturer's technical after-sales assistance.**
MECHANICAL AIR PRESSURE SWITCH: Blocks the pellet in the event of insufficient depression

TABLE OF SAFETY DEVICES FOR CLOSED VESSEL SYSTEM AND NOT PRESENT IN THE PRODUCT	
Safety valve	☑
Pump control thermostat (it is managed by the water probe and the board program)	☑
Acoustic alarm activation thermostat	-
Water temperature indicator (display)	☑
Pressure indicator	-
Acoustic alarm	-
Regulation automatic circuit breaker switch (managed by board program)	☑
Minimum and maximum pressure pressure switch	☑
Water overheating automatic circuit breaker switch (block thermostat)	☑
Circulation system (pump)	☑
Expansion system	☑

During installation of the stove it is MANDATORY to adjust the system with a manometer in order to display the water pressure.

INSTALLATION AND SAFETY DEVICES

The installation, relative system connections, commissioning and inspection of correct functioning must be carried out perfectly, in total compliance with Standards in force, both national, regional and municipal, as well as these instructions.
For Italy, installation must be carried out by professionally authorised staff (Ministerial Decree dated 22.01.08 n°37).
Extraflame S.p.A. declines all responsibility for damages to objects and/or persons caused by the system.

SAFETY DEVICES FOR CLOSED VESSEL SYSTEM

According to the UNI 10412-2 (2009) Standard in force in Italy, the closed systems must have: safety valve, pump control thermostat, acoustic alarm activation thermostat, temperature indicator, pressure indicator, acoustic alarm, regulation automatic circuit breaker switch, automatic circuit breaker block switch (block thermostat), circulation system, expansion system, safety dissipation system incorporated with the generator with thermal safety valve (self-activated), whenever the appliance does not have a temperature self-adjustment system.

DISTANCES OF SAFETY DEVICES ACCORDING TO THE STANDARD

The temperature safety sensors must be in place on the machine at a distance no greater than 30 cm from the flow connection.

Whenever the generators lack a device, those missing can be installed on the generator flow pipe, within a distance no greater than 1m from the machine.

COMPONENT	DISTANCE
Temperature safety sensors	On the machine or not exceeding 30 cm
Missing devices because not as per standard	Not exceeding one metre, on the flow pipe

The domestic heating appliances with automatic feeding must: be equipped with a fuel block thermostat or with a cooling circuit set up by the appliance manufacturer.
The cooling circuit must be activated by a thermal safety valve, in order to ensure that the limit temperature set forth by the Standard is not exceeded.
Connection between the power supply unit and the valve must be free from interceptions.
The pressure upstream from the cooling circuit must be at least 1.5 bar.

TYPE OF SYSTEM

There are two different types of system:
- Open vessel plant and closed vessel plant.

The product has been designed and realised to work with closed vessel systems.

CLOSED VESSEL PLANT

System in which the water it contains is not in direct or indirect communication with the atmosphere. Generally, the closed vessel system has one of the following expansion vessels:
- Pre-loaded closed expansion vessel with membrane impermeable to the passage of gases.
- Automatic closed expansion system with compressor and membrane impermeable to the passage of gases.
- Automatic closed expansion system with transfer pump and membrane impermeable to the passage of gases.
- Expansion system without diaphragm.

GENERALITY

The closed systems must have:
- Safety valve
- Pump control thermostat
- Acoustic alarm activation thermostat
- Temperature indicator
- Pressure indicator
- Acoustic alarm
- Adjustment automatic circuit breaker switch
- Automatic circuit breaker switch (block thermostat)
- Circulation system
- Expansion system
- Safety dissipation system incorporated with the generator with thermal safety valve (self-activated), whenever the appliance does not have a temperature self-adjustment system

SAFETY VALVES

The load capacity of the safety valve must allow the discharge of a quantity of vapour, not lower than: Q / 0.58 [kg/h] where: Q is the useful outlet power to the generator water expressed in kilowatt. The diameter of the minimum net transversal section of the valve inlet must not be lower than 15 mm. The valve load pressure, equal to the calibration pressure, increased by the overpressure, cannot exceed the maximum exercise pressure of the heat generator. The designer must check that the maximum pressure existing in every point of the system, does not exceed the maximum exercise pressure of its every component . The safety valve must be connected to the upper part of the heat generator or outlet pipes, very close to the generator. The length of the piping between the generator coupling and the safety valve must not exceed 1 m. The piping connecting the safety valve to the heat generator must not be interrupted and must not have, in any point, a cross-section lower than than that of the safety

valve inlet or than the sum of the inlet cross-sections, in the event of several valves serving a single pipe. The discharge piping of the safety valve must be realised in order not to prevent the regular functioning of the valves and not to cause damages to persons; the discharge must flow immediately near the safety valve and be accessible and visible. The diameter of the discharge piping must not however be lower than that of the outlet connection of the safety valve. For diameter of outlet connection it is intended the minimum internal diameter on the valve outlet upstream of the eventual internal threading.

CLOSED EXPANSION VESSEL

Warnings: check that the preload of the expansion vessel is set to 1.5 bar.
The vessel maximum exercise pressure must not be lower than the calibration pressure of the safety valve, increased by overpressures, characteristic of the same valve, bearing in mind the eventual level difference between vessel and valve and the pressure generated by the functioning of the pump. The capacity of the expansion vessel/s is evaluated depending on the total system capacity as results from the project. The closed expansion vessels must comply with the provisions concerning the design, manufacturing, conformity assessment and use of pressure appliances. Intercepting objects or section decreases must be inserted/practiced on the connection piping, which can be constituted by system portions. The insertion of a three-way intercepting valve which allows connection between the vessel and the atmosphere for maintenance operations, is allowed. Such device must be protected against accidental manoeuvres. The connection pipe must be realised in order not to present scales or deposits storage points. In case of more heat generators which feed the same plant or the same secondary circuit, each heat generator must be connected directly to the expansion vessel or plant expansion vessels unit, altogether dimensioned for the total volume of water contained in the same plant or the same independent circuit. Where it is necessary to separate the individual heat generator from the expansion vessel or expansion vessels unit, a three-way tap must be applied on the connection piping between the generator and the vessel, in order to ensure, in every position, the connection of the generator with the expansion vessel or with the atmosphere. The expansion vessels, the connecting pipes, the bleed pipes and drain pipes must be protected from freezing, where this phenomenon occurs. The solution used for this purpose is described in the design.

COMMISSIONING CHECKS

Before connecting the boiler:
a) wash all system piping in order to remove any residues which might compromise the correct functioning of certain system components (pumps, valves, etc.).
b) check to verify that the flue has adequate draft, is not narrowed and that other appliances do not discharge into the flue.
This is to prevent unexpected power increases. Only after this control can the flue fitting be mounted between the boiler and the flue. A check of the connections with pre-existing flues is recommended.

AUTOMATIC THERMOSTATIC MIXER VALVE (MANDATORY)

The automatic thermostatic mixing valve finds applications in solid fuel boilers as it prevents cold water return into the exchanger.

Routes 1 and 3 are always open and, together with the pump installed on the return, they guarantee water circulation inside the biomass boiler exchanger.

An elevated return temperature, allows efficiency improvement, reduces formation of combustion product condensation and prolongs the boiler life span.

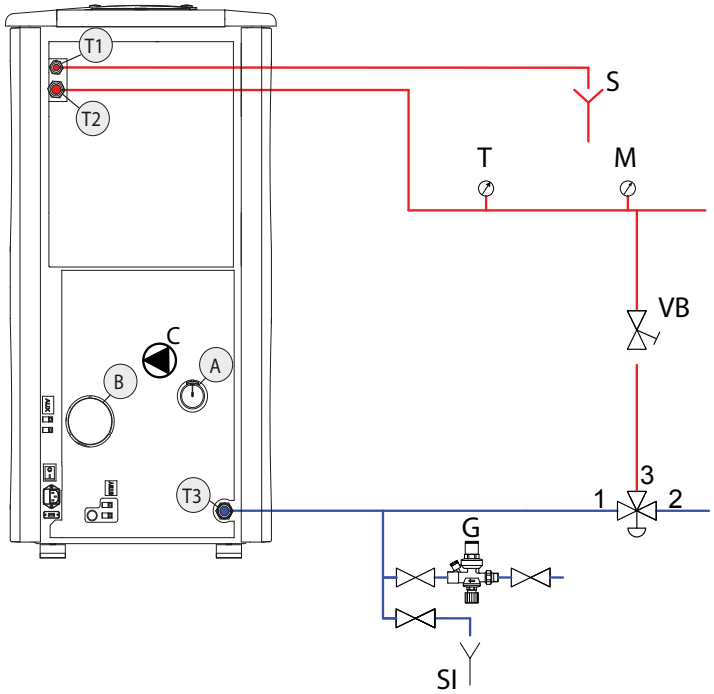
Valves on the market have different calibrations. Extraflame advises use of 55°C model with 1" hydraulic connections.
Upon reaching the calibration temperature of the valve, route 2 opens and the boiler water goes to the system via the flow.

Valve sold as an accessory (optional)

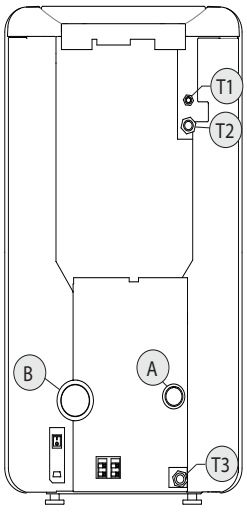
HYDRAULIC PLANT BASIC LAYOUT

NOTE:
the drawing in the figure is an example.

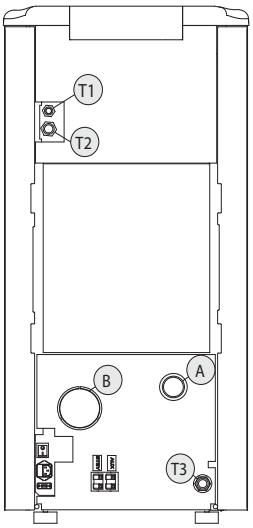
KEY	
A	Primary air inlet
B	Flue exhaust outlet
C	Circulator pump (in the models where provided)
T1	3 bar safety drain
T2	Boiler flow/outlet
T3	Boiler return/inlet
M	Manometer
T	Thermometer
G	Filling system
S	Safety valve discharge
VB	Balance Valve
SI	System exhaust



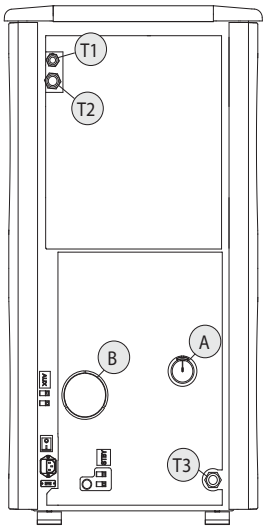
GIORDANA IDRO
ISIDE IDRO



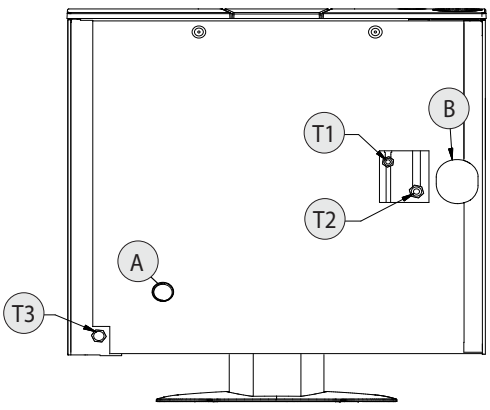
MELINDA IDRO



DUCHESSA IDRO



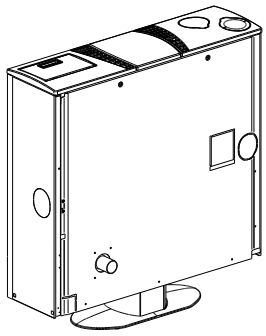
ELISIR IDRO



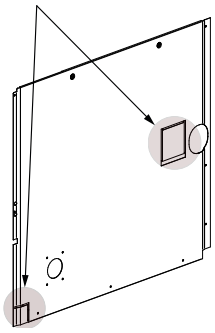
WE RECOMMEND REFERRING TO THE TEMPLATE MANUAL FOR FURTHER INFORMATION REGARDING HYDRAULIC CONNECTIONS, AIR INTAKE/FLUE EXHAUST AND DIMENSION SPECIFICATIONS OF THE PRODUCT IN QUESTION.

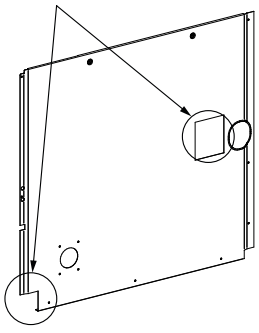
ELISIR IDRO HYDRAULIC CONNECTIONS

1. Remove the galvanised back

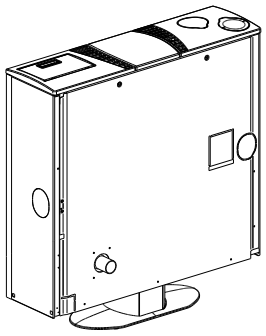


2. Remove the two steel sheets by cutting the joints

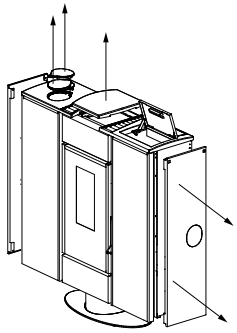




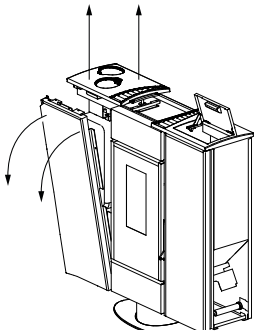
3. Re-position the back



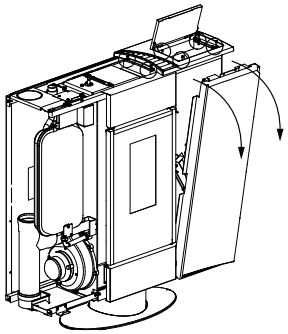
4. Remove the two caps, the ceramic covering and the two sides



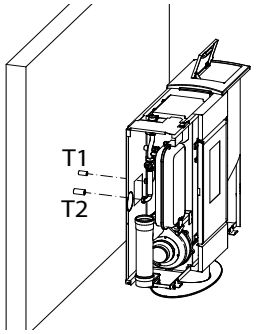
5. First remove the left cast iron cover and then the complete left front panel



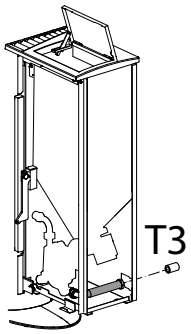
6. First remove the 6 screws of the right cast iron cover and then the complete right front panel



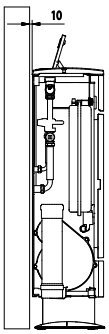
7. Connect the system flow (T2) to the machine and the safety valve pipe (T1). Refer to the template for the correct position



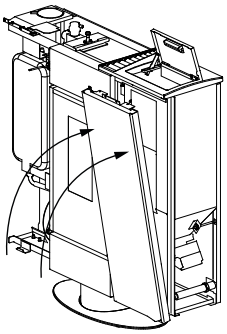
8. Connect the system return (T3) to the machine. Refer to the template for the correct position of the fittings



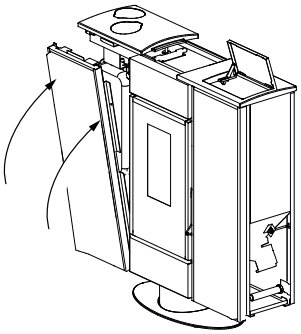
9. The stove must be about 10 mm away from the wall



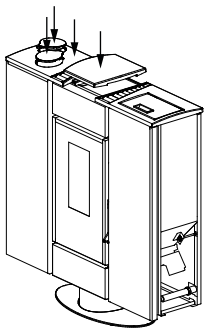
10. Re-position the complete right panel. Fix the right cast iron cover using the 6 screws.



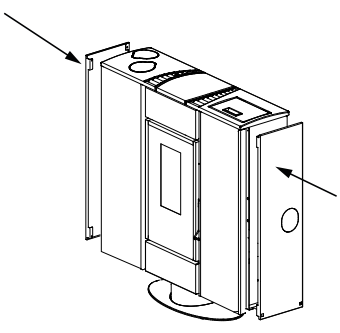
11. Re-position the complete left panel

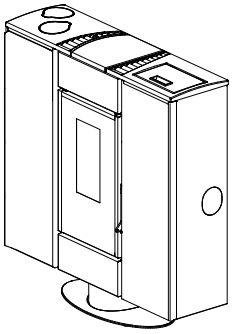


12. Reposition the caps, the cast iron cover and the ceramic covering



13. Re-position the 2 sides





INSTANT DOMESTIC HOT WATER PRODUCTION KIT

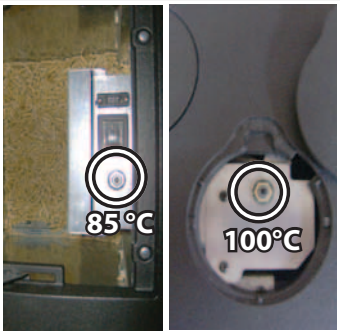
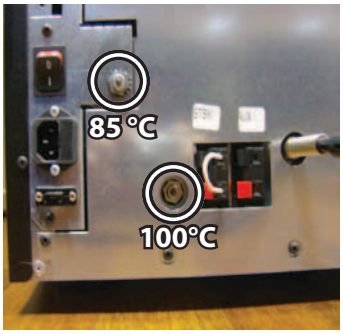
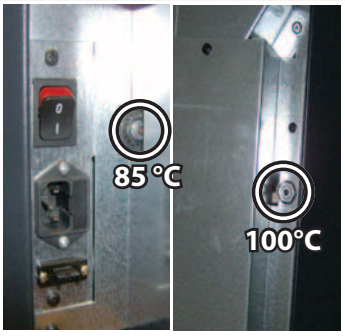
Warnings: if the instant hot water production kit is to be used, contact the company technical after-sales service.

STOVE POSITIONING

For correct product functioning, it is recommended to position it in a way that it is perfectly level, with the aid of a spirit level.

REARMING

The figures below show the positions for rearming the tank (85°C) and H2O (100°C).
We recommend contacting a qualified technician in the event rearming occurs to verify its cause.

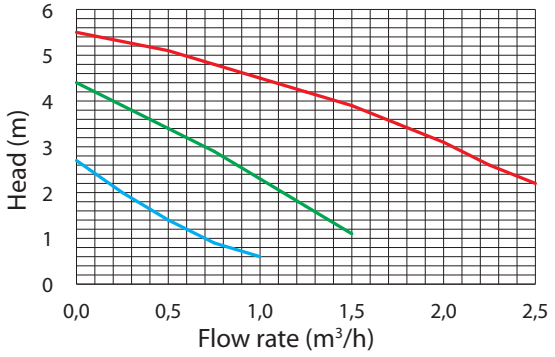
ELISIR IDRO	DUCHESSA IDRO	MELINDA IDRO	ISIDE IDRO GIORDANA IDRO
			

THERMO-PRODUCTS FEATURES

	DUCHESSA IDRO DUCHESSA STEEL IDRO	MELINDA IDRO MELINDA IDRO STEEL	ISIDE IDRO	ELISIR IDRO	GIORDANA IDRO
Water content of the thermo product heat exchanger (l)	13	13	18.5	15	18.5
Volume of expansion vessel integrated into thermo-product (l)	6	6	8	8	8
Maximum content of water in the system for integrated expansion vessel (l)*	23	23	33	36	33
3 bar safety valve integrated into the thermo-product	YES	YES	YES	YES	YES
Minimum and maximum pressure switch integrated into the thermo-product	YES	YES	YES	YES	YES
Pump integrated into the thermo-product	YES	YES	YES	YES	YES
Pump max. head (m)	5	5	5	5	5

*Content of water in the system in addition to that of the thermo product that can be managed with the integrated expansion vessel. An additional expansion vessel must be installed for a higher content of water.

The following graph shows the behaviour of the circulator pump used on our thermo-products at the speeds that can be set.



SAFETY DEVICES

SAFETY DEVICES KEY: * = PRESENT, - = NOT PRESENT	STOVES
Circuit board: intervenes directly by sending the product into alarm conditions until complete cooling, in the case of: breakage of flue gas motor, pellet feed motor breakage, black out (if more than 10 seconds), no ignition	*
Insert blocking micro switch: if the end run micro switch warns that the insert is not blocked, electric energy does not pass to power it	-
Electronic pressure switch: in the event of inadequate depression, it takes the machine to alarm conditions	*
F 2.5 A 250 V fuse (stoves): protects the machine from violent current drops	*
85°C calibrated mechanical bulb with manual rearm: intervenes by blocking fuel feed whenever the pellet tank t° reaches the limit of 85°C. **Rearm must be performed by qualified staff and/or the manufacturer's technical after-sales assistance.**	*
Pellet feed-box temperature control probe: if the tank over-heats, the machine automatically modulates to return to normal temperature values (* in the models envisioned)	*
Mechanical air pressure switch: blocks the pellet in the event of insufficient depression (in the models envisioned)	*

INSTALLATION

The installation must be in compliance with:

- **UNI 10683 (2005) heat generators fed with wood and other solid fuels: installation.**

The chimneys must be in compliance with:

- EN 13384 Thermal and fluid dynamic calculation methods.
- UNI 1443 (2005) chimneys: general requirements.
- UNI 1457 (2012) chimneys: clay/ceramic flue liners.
- UNI/TS 11278 (2008) Chimneys/smoke channels/pipes/flues/metal pipes.
- UNI 7129 point 4.3.3 Fire Department dispositions, local rules and prescriptions.

NATIONAL, REGIONAL, PROVINCIAL AND TOWN COUNCIL REGULATIONS

It is necessary to bear in mind all laws and national, regional, provincial and town council Standards present in the country the appliance has been installed.

GLOSSARY

CLOSED HEARTH APPLIANCE
Heat generator which opening is only allowed through the loading of the fuel during use.

BIOMASS
Biological material, excluding the material incorporated in geological formations and transformed into fossils.

BIOFUEL
Fuel produced directly or indirectly by biomass.

CHIMNEY
Vertical pipe with the aim of collecting and expelling the fuel products coming from only one appliance, at a convenient height from the ground.

SMOKE CHANNEL OR FITTING
Pipe or connecting element between heat generator appliance and chimney to evacuate combustion products.

INSULATION
Group of set-ups and materials used to prevent the transmission of heat through a wall that separates rooms with different temperatures.

CHIMNEY CAP
Device positioned at chimney peak to ease the dispersion of combustion products into the atmosphere.

CONDENSATE
Liquid products that form when the combustion gas temperature is lower or equal to the water dew point.

HEAT GENERATORS
Appliance which allows to produce thermal energy (heat) through the rapid transformation, via combustion, of the chemical energy of the same fuel.

GATE VALVE
Mechanism for modifying the combustion gas dynamic resistance.

COMBUSTION PRODUCT EVACUATION SYSTEMS
Flue gas exhaust system independent from the appliance constituted by a fitting or smoke channel, chimney or individual flue and chimney cap.

FORCED DRAUGHT
Air circulation by means of the fan activated by electric motor.

NATURAL DRAUGHT
Draught which is determined in a chimney/flue for effect of the volume mass difference existing between smoke (hot) and surrounding atmosphere air, without any mechanical intake aid installed inside it or at its peak.

RADIATION AREA
Area immediately near the hearth in which the heat caused by combustion is diffused, where no combustion materials must be present.

REFLUX AREA
Area where leaking of the combustion products is verified, from the appliance towards the installation room.

The installation must be preceded by checking the chimneys, flues or unload terminals positioning of appliances similarly to:

- Installation prohibitions
- Legal distances
- Limitations disposed by local administrative regulations or particular authority prescriptions.
- Conventional limitations deriving from condominium regulations, constraints or contracts.

INSTALLATIONS ALLOWED
Only appliances working in a sealed manner respect to the room or which do not place the room in depression respect to the external environment, can exist or be installed in the room where the heat generator will be installed.
Appliances for cooking food and relative hoods without extractor are only allowed in kitchens.

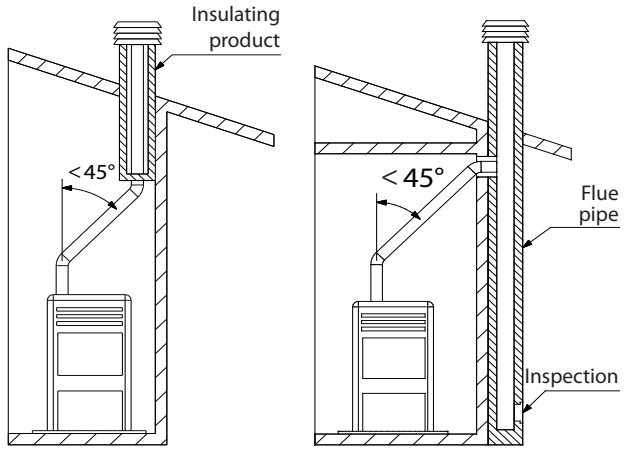
INSTALLATIONS NOT ALLOWED
In the room where the heat generator will be installed the following must not pre-exist or be installed:

- hoods with extractor
- collective type ventilation pipes.

Should these appliances be in rooms adjacent, communicating with the installation room, the simultaneous use of the heat generator is forbidden, where a risk exists of one of the two rooms being placed in depression respect to the other.

CONNECTION TO THE SMOKE EVACUATION SYSTEM
UNI 10683 (2005) Standard

SMOKE CHANNEL OR FITTINGS
To mount the smoke channels, non-flammable elements will have to be used, ideal for resisting combustion products and their eventual condensing.
The use of flexible metal and asbestos cement pipes to connect the appliances to the flue is forbidden, even for pre-existing smoke channels.
There must be continuity between the smoke channel and the flue so that the flue does not lean on the generator. The smoke channels must not cross rooms where the installation of the combustion appliances is not allowed.
The mounting of the smoke channels must be carried out in order to guarantee smoke seal for the appliance functioning conditions, limit the forming of condensate and avoid it being transported towards the appliance.
The mounting of horizontal routes must be avoided.
For appliances where ceiling or wall non-coaxial discharges with respect to the appliance combustion product outlet have to be reached, the direction changes will have to realised using open bends not greater than 45° (see figures below).
For the heat generator appliances equipped with electric fan for expelling combustion products, the instructions below must be followed:



- The horizontal routes will have to have a minimum upward slope of 3%
- The length of the horizontal route must be minimal and, however, not longer than 3 metres
- The number of direction changes including the one for effect of using the "T" element must not be more than 4.

In any case, the smoke channels must seal the combustion and condensate products and be insulated if they pass outside the installation room.
The use of counterslope elements is forbidden.
The smoke channel must allow the recovery of soot or be brushable.
The smoke channel must have constant section. Any section changes are only allowed at the flue coupling.
It is forbidden to have other air supply channels and pipes for plant engineering, especially if over-sized, transit inside the smoke channels. The mounting of manual draught adjustment devices on forced draught appliances is forbidden.

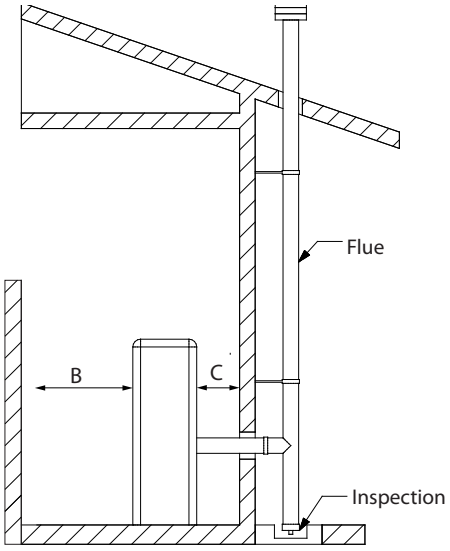
CHIMNEY OR INDIVIDUAL FLUE

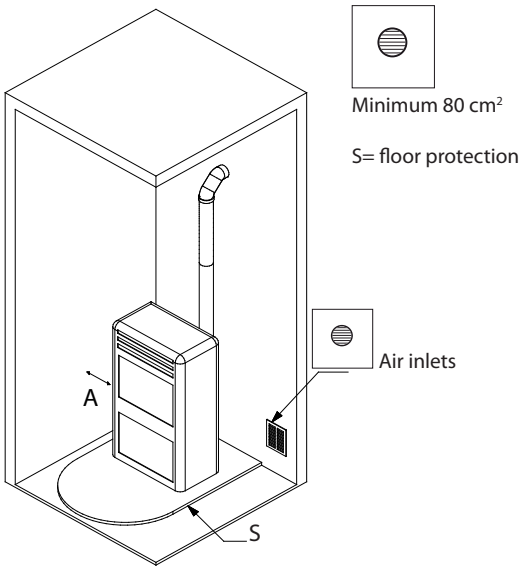
The chimney or individual flue must respond to the following requisites:

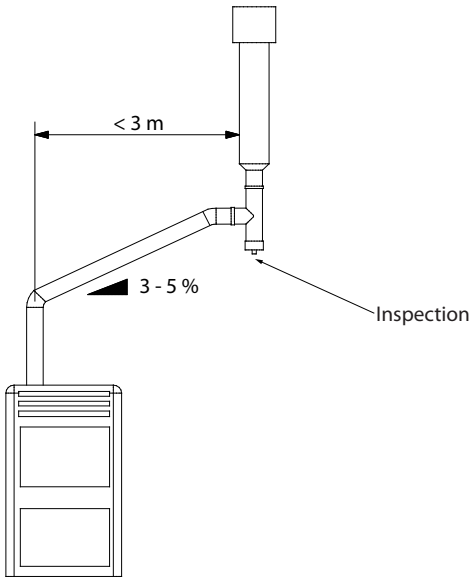
- seal the combustion products, be waterproof and adequately insulated in line with the use conditions;
- be realised with materials which resist the normal mechanical stress, heat, action of the combustion products and any condensate;
- have mainly vertical progress with deviations from the axis not higher than 45°;
- be adequately distanced from fuel or flammable materials through air space or opportune insulation;
- have preferably circular internal section: the square or rectangular sections must have round corners with a radius not lower than 20 mm;
- have constant internal section, free and independent;
- have rectangular section with max. ratio between the sides of 1.5.

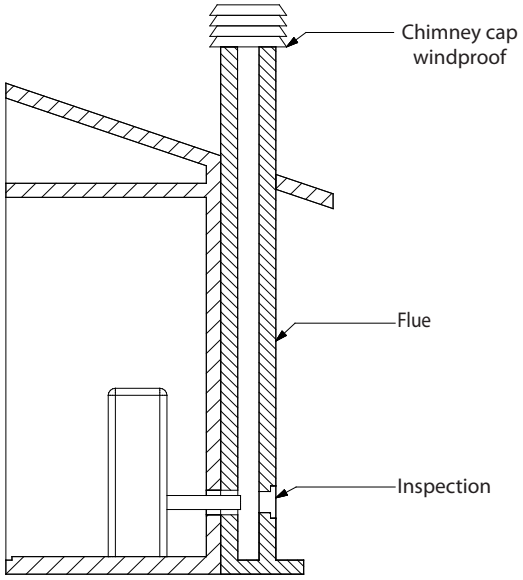
It is recommended that the smoke pipe be equipped with a collection chamber for solid materials and any condensate situated under the smoke channel inlet, so that it can be easily opened and inspected from airtight door.

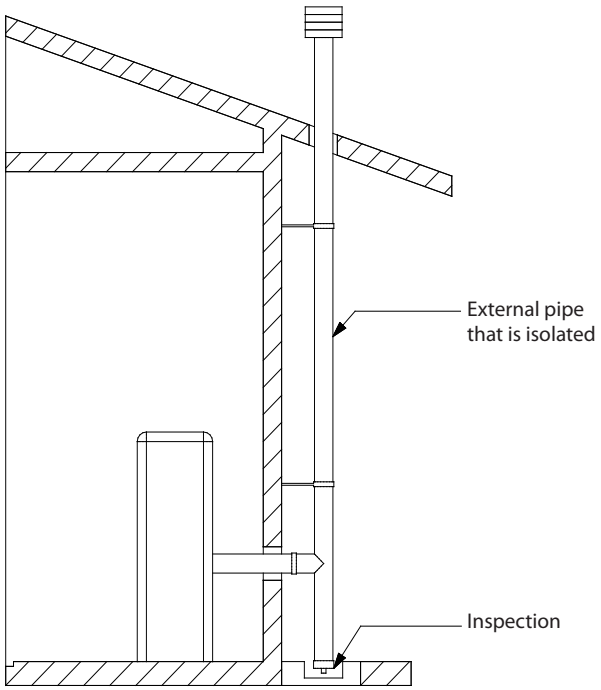
REFERENCES	INFLAMMABLE OBJECTS	NON-INFLAMMABLE OBJECTS
A	200 mm	100 mm
B	1,500 mm	750 mm
C	200 mm	100 mm

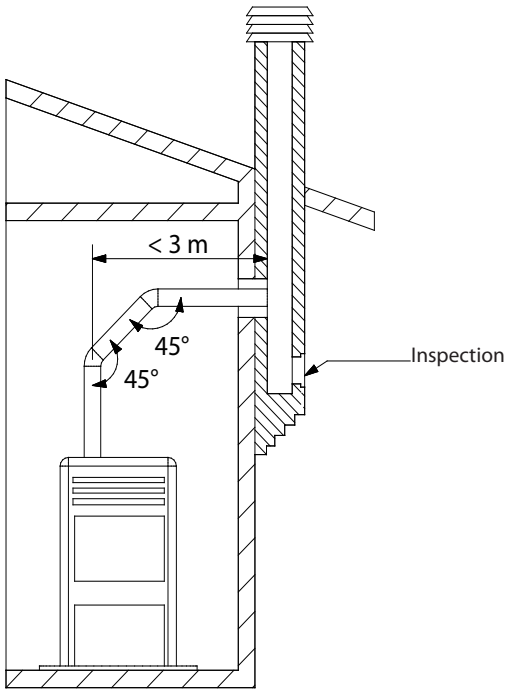












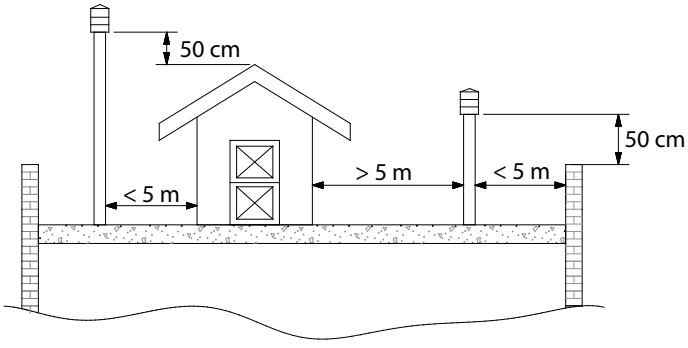
Appliance connection to the flue and combustion products evacuation
The flue must receive the discharge from only one heat generator.
Direct discharge towards closed spaces is forbidden, even with clear sky.
The direct discharge of the combustion products must be at roof and the smoke pipe must have the features provided in the "Chimney or individual flue" section.

CHIMNEY CAP

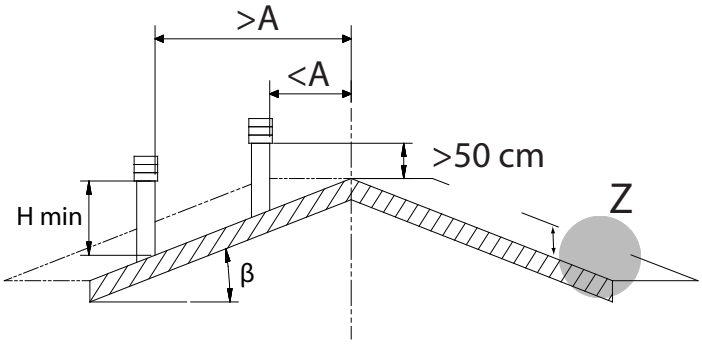
The chimney cap must comply with the following requisites:

- have an internal section equivalent to that of the chimney;
- have useful outlet section not lower than double the chimney internal section;
- be built in order to avoid rain, snow, foreign bodies penetrating the chimney and so that, in the event of winds in any direction and inclination, the discharge of the combustion products is assured.
- be positioned in a way to guarantee an adequate dispersion and dilution of the combustion products and, however, outside the reflux area in which the formation of counterpressures occurs. Such area has different dimensions and configuration depending on the covering inclination angle. It is therefore necessary to adopt the minimum heights indicated in the figure layouts below.
- The chimney cap must not have mechanical intake means.

FLAT ROOF



SLOPING ROOF



Z=REFLUX AREA

CONNECTION TO EXTERNAL AIR INLETS

The appliance must be able to use the necessary air to guarantee regular functioning through external air inlet. The air inlets must comply with the following requisites:

- have a total free section of at least 80 cm^2.
- must be protected by grates, metal net or suitable protections as long as they do not reduce the minimum section stated in the previous point and positioned in order to avoid them being obstructed.

If the combustion agent air is withdrawn directly from outside through a pipe, a downward bend must be mounted outside or a protection against the wind and no grates or similar must be positioned, (it is recommended that the air vent always communicates directly with the installation room even if the air is withdrawn from outside through a pipe). The air flow can also be obtained from an adjacent room, as long as the flow takes place freely through permanent openings communicating with the outside.
The adjacent room, with respect to the installation room, must not be put in depression with respect to the external environment by means of reverse draught caused by the presence of another used appliance or intake device in such room. The permanent openings in the adjacent room must comply with the above-described requisites. The adjacent room cannot be set up as garage, storage for combustion material or activity with danger of fire.

INSULATION, FINISHINGS, COVERING AND SAFETY RECOMMENDATIONS

The coverings, independently from the materials from which they are made, must constitute a self-supporting construction with respect to the heating block and not be in contact with it.
The cross members and finishings in wood or combustion materials must be positioned outside the hearth radiation area or adequately insulated.
If coverings in combustion material or sensitive to heat exist in the space above the generator, an insulating and non combustible protection diaphragm must be inserted.
Elements in combustible or inflammable material like wooden furniture, curtains, etc. directly exposed to the hearth radiation, must be positioned at a safe distance. The appliance installation must guarantee easy access for cleaning the appliance itself, discharge gas pipe and flue.

CHIMNEY CAPS, DISTANCES AND POSITIONING		
Roof inclination	**Distance between the ridge and the chimney**	**Minimum chimney height (measured from outlet)**
β	**A (m)**	**H (m)**
15°	< 1,85	0.50 m over the ridge
	> 1,85	1.00 m from roof
30°	< 1,50	0.50 m over the ridge
	> 1,50	1.30 m from roof
45°	< 1,30	0.50 m over the ridge
	> 1,30	2.00 m from roof
60°	< 1,20	0.50 m over the ridge
	> 1,20	2.60 m from roof

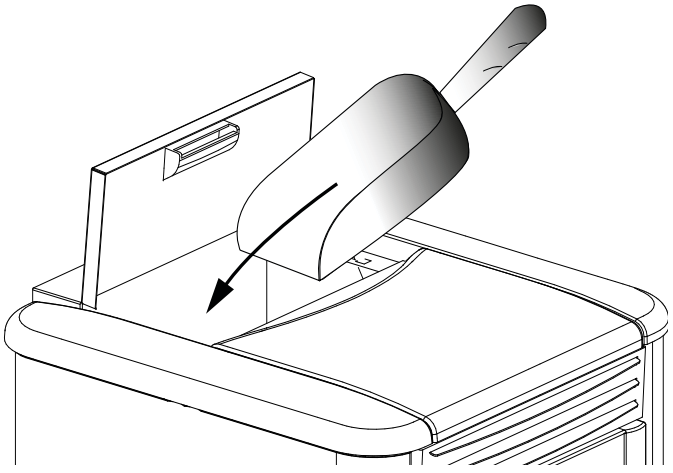
PELLETS AND FEEDING

The pellets used must comply with the features described by the Standard:

- Ö-norm M 7135
- DIN plus 51731
- UNI CEN/TS 14961

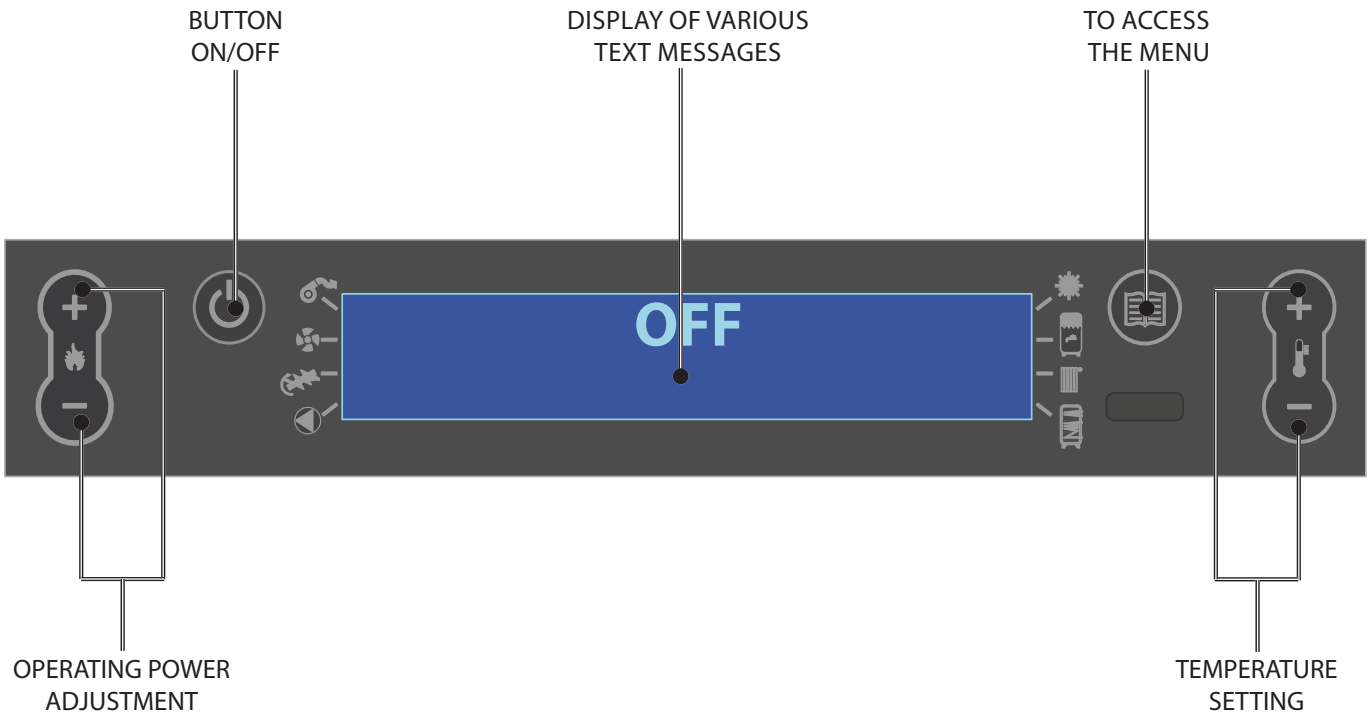
Extraflame recommends the use of pellets with use pellet having a 6 mm diameter.

Open the tank lid and load the pellets using a scoop.



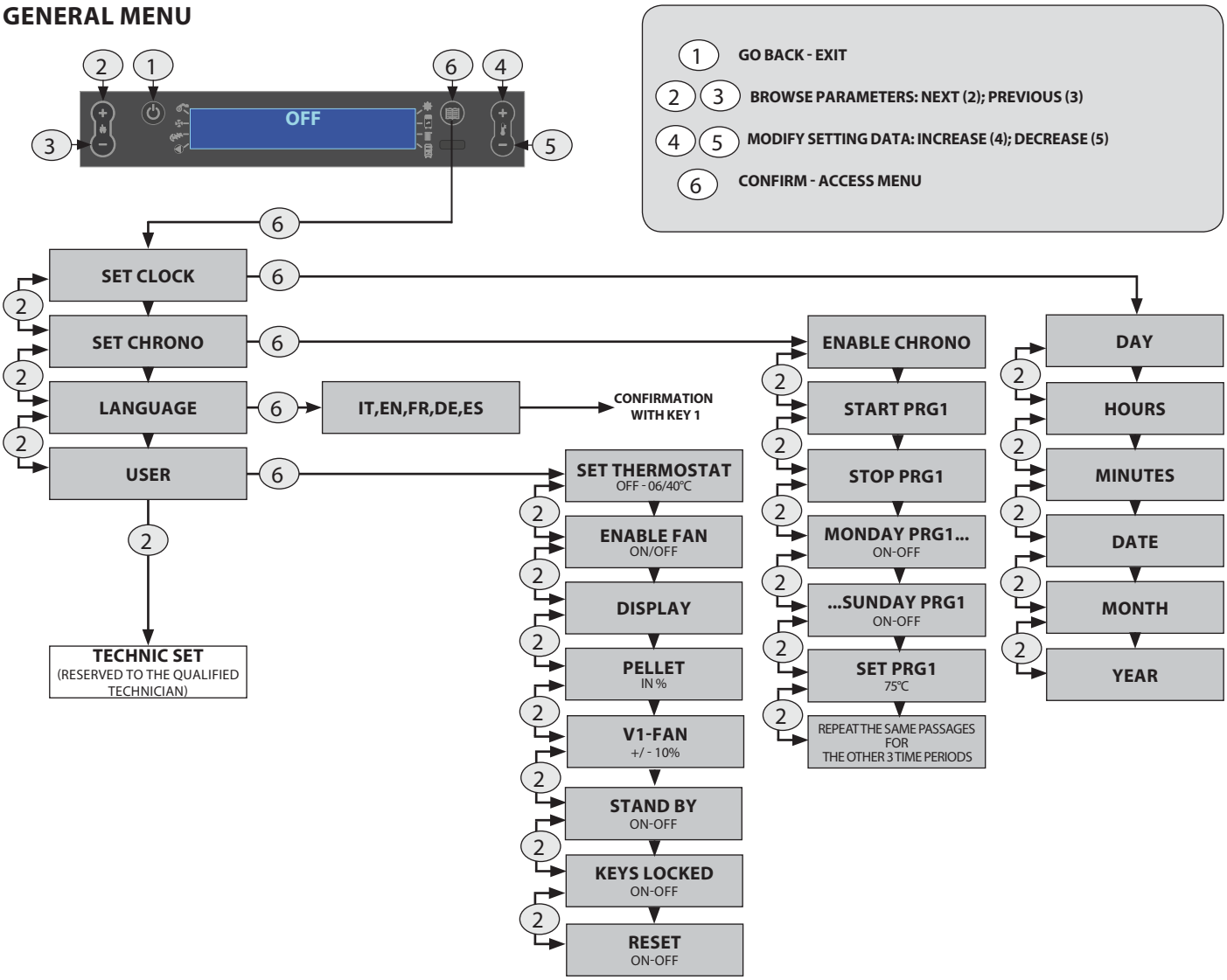
THE USE OF BAD QUALITY PELLETS OR ANY OTHER MATERIAL CAN DAMAGE YOUR STOVE AND WILL MAKE THE WARRANTY NULL AND VOID, RELEASING THE MANUFACTURER FROM ANY LIABILITY.

CONTROL BOARD



DISPLAY ICONS			
	Indicates the receipt of the radio signal On = during radio communication Off = no radio communication Flashing = excluded serial port		Indicates the stove modulation On = the stove is working at the set power Flashing = the power at which the stove is working is different to the power set, the stove is modulating (for various reasons)
	Indicates the presence of an alarm. On: indicates the presence of an alarm Off: indicates the absence of alarms Flashing: indicates the deactivation of the depression sensor.		It indicates weekly programming functioning Indicator on = Weekly programming active Indicator off = Weekly programming not active
	Indicates the water temperature status Off = the T° read by the probe is over the set temperature set On = the T° read by the probe is below the set temperature set		Indicates the contact of the external additional thermostat On = closed contact: the contact of the external additional thermostat is closed. On = open contact: the contact of the external additional thermostat is open. Flashing with closed contact: the contact of the external additional thermostat is closed and the STBY function is activated Flashing with open contact: the contact of the external additional thermostat is open and the STBY function is activated
	It indicates functioning of the fumes motor. Off = flue gas motor deactivated On = flue gas motor active Flashing = breakdown (contact technical after-sales service)		-
	It indicates functioning of the tangential fan (where present) Off = not working On = working Flashing = motor at minimum		-
	It indicates functioning of the pellet feed motor. Off = pellet feed motor deactivated On = pellet feed motor active.		-
	It indicates pump functioning Off = pump deactivated On = pump active Flashing = the safety device is active (H2O temperature > 85°C)		-

GENERAL MENU



BASIC INSTRUCTIONS

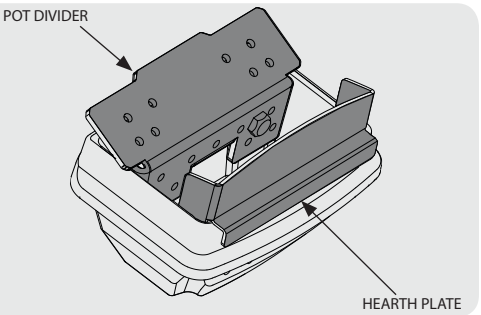
The following recommendations must be followed the first times the stove is ignited:

- It is possible that slight odours are produced due to the drying of the paints and silicones used. Avoid staying in the room for a long time.
- Do not touch the surfaces as they could still be unstable.
- Air the room well several times.
- The hardening of the surfaces is terminated after several heating processes.
- This appliance must not be used to burn waste.

Before igniting the stove, the following points must be verified:

- The hydraulic system must be finished in compliance with the standards and with the indications of this manual.
- The feed-box must be full of pellets
- The combustion chamber must be clean
- The burn pot must be completely clear and clean
- Check the hermetic closure of the fire door and the ash drawer
- Ensure that the power supply cable is connected correctly
- The bipolar switch in the rear right part must be positioned on 1

IT IS PROHIBITED TO USE THE APPLIANCE WITHOUT DIVIDER AND/OR HEARTH PLATE (SEE FOLLOWING FIGURE).
ITS REMOVAL JEOPARDISES THE SAFETY OF THE PRODUCT AND WILL IMMEDIATELY MAKE THE WARRANTY NULL AND VOID.
IN THE EVENT OF WEAR OR DETERIORATION, REQUEST THE SPARE PART FROM THE AFTER-SALES SERVICE (REPLACEMENTS ARE NOT COVERED BY THE WARRANTY SINCE ITEMS ARE SUBJECT TO WEAR).



THE REMOTE CONTROL

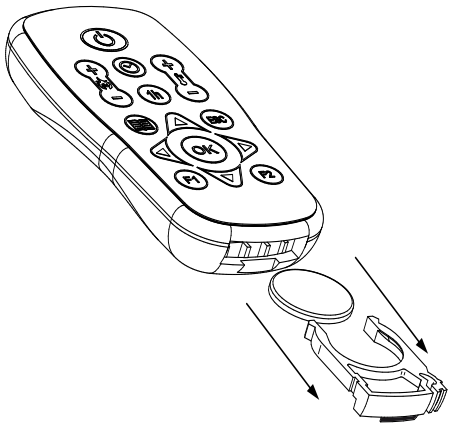
The remote control allows adjusting all that can normally be done through the LCD display
The table below shows the various functions in detail:

1	**ON / OFF**	Pressing the key for three seconds, the stove will switch-on or off
2	**POWER INCREASE**	Pressing the key will increase the operating power
3	**POWER DECREASE**	Pressing the key will decrease the operating power
4	**T° INCREASE**	This button allows increasing the temperature setpoint
5	**T° DECREASE**	This button allows decreasing the temperature setpoint
6	**ENABLE/DISABLE CHRONO**	Press this button once to enable or disable the chrono
7	**ENABLE DELAYED SWITCH-OFF**	This button allows setting the delayed switch-off. For example, if the stove is set to switch off in an hour, it shall switch off automatically once the set time elapses, displaying the countdown every minute.
8	**MENU**	this key provides access to the user and technical menu (the technical menu is reserved for assistance)
9	**INCREASE**	This button allows increasing the temperature setpoint
10	**ESC KEY**	This key allows the user to exit any program or display and return to the main menu without storing the data
11	**REVERSE**	This button goes back in the display of the various menus
12	**CONFIRMATION KEY**	This key confirms the adjustments made during the user menu programming phase
13	**FORWARD**	This key moves forward in the various menus
14	**ENABLE F1 FUNCTION**	Button designed for future applications
15	**DECREASE**	This key decreases the value to be set
16	**STOVE STATUS**	Press this key to view the general status of the stove

Note: the numbers shown on the remote control are purely explanatory and are not present on the remote control supplied with the product.

TYPE AND REPLACEMENT OF BATTERIES

The batteries are housed in the lower part of the remote control.
To replace it, remove the battery holder (as indicated in the figure at the back of the remote control), remove or insert the battery, following the symbols on the remote control and on the battery itself.



For operation, 1 CR2025, 3V lithium buffer battery is required.

The batteries used contain metals harmful for the environment. They must therefore be disposed of separately in appropriate containers.

If the remote control is off because it has no batteries, stove can be controlled from the control panel on top of it.
While replacing the battery, pay attention to the polarity by observing the symbol on the inside compartment of the remote control.

COMMISSIONING SETTINGS

Once the power cable at the back of the stove has been connected, move the switch, also located on the back, to (I).
The switch at the back of the stove powers the stove board.
The stove remains off and a first screen appears on the panel
with the word OFF.

ADJUSTING TIME, DAY, MONTH AND YEAR

Set clock allows to adjust the time and date

CONTROLS PROCEDURE

- Press button 6 and **SET CLOCK** will appear.
- Confirm using key 6.
- Use keys 4 and 5 to assign the day.
- Proceed pressing key 2
- Follow the same procedure (4 or 5 to set and 2 to proceed) to adjust the hours, minutes, date, month and year.
- Press key 1 several times to confirm and exit the Menu.

SET CLOCK	
DAY	MON, TUE, WED, ...SUN
HOURS	0...23
MINUTES	00...59
DATE	1...31
MONTH	1...12
YEAR	00...99

ADJUSTING LANGUAGE

It is possible to select the preferred language to display the various messages.

CONTROLS PROCEDURE

- Press key 6, until the text **SET CLOCK** appears.
- Press key 2 twice until **SET LANGUAGE.**
- Confirm using key 6.
- Select the language using key 4 o 5.
- Confirm using key 6 then key 1 to exit the Menu.

SET LANGUAGE	
LANGUAGE	ITALIAN
	ENGLISH
	GERMAN
	FRENCH
	SPANISH

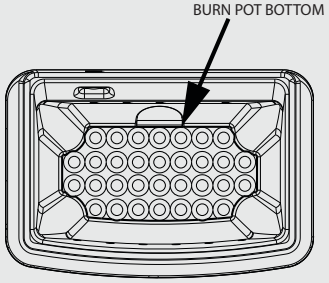
DO NOT USE ANY INFLAMMABLE LIQUIDS FOR IGNITION!
DO NOT ALLOW THE BAG OF PELLETS TO COME INTO CONTACT WITH THE BOILING HOT STOVE DURING THE FILLING PHASE!
IN THE EVENT OF CONTINUOUS NO IGNITION, CONTACT AN AUTHORISED TECHNICIAN.

NO IGNITION

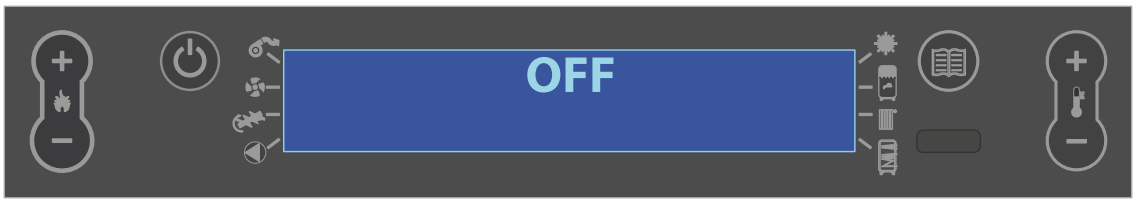
FIRST IGNITION COULD EVEN FAIL AS THE AUGER IS EMPTY AND IS NOT ALWAYS ABLE TO LOAD THE BURN POT WITH THE REQUIRED AMOUNT OF PELLETS ON TIME TO REGULARLY START THE FLAME.
IF THE PROBLEM OCCURS AFTER ONLY A FEW MONTHS WORKING, CHECK THAT ROUTINE CLEANING STATED IN THE STOVE BOOKLET, HAS BEEN CARRIED OUT CORRECTLY.

NO FLOW ALARM - CLEAN CHECK UP ALARM

SHOULD THE "CLEAN CHECK UP" ALARM BE TRIGGERED, MAKE SURE THAT THE BOTTOM OF THE BURN POT IS FREE FROM RESIDUES OR SCALES. THE HOLES AT THE BOTTOM MUST BE COMPLETELY FREE TO GUARANTEE CORRECT COMBUSTION.
"PELLET FEED ADJUSTMENT" TO ADJUST COMBUSTION ACCORDING TO REQUIREMENTS. IF THE ALARM PERSISTS AND THE ABOVE LISTED CONDITIONS HAVE BEEN CHECKED, CONTACT THE QUALIFIED AFTER-SALES ASSISTANCE CENTRE.



FUNCTIONING AND LOGIC



IGNITION
Once the points listed previously have been checked, press key 1 for three seconds to ignite the stove.
15 minutes are available for the ignition phase. After ignition and having reached the control temperature, the stove interrupts the ignition phase and passes to STARTING.

STARTING
During the starting phase, the stove stabilises combustion, increasing it progressively, to then start ventilation and pass on to WORK.

WORK
During the work phase, the stove reaches the set power; see following item.

ADJUSTING POWER SETTING
Set the functioning power from 1 to 5 (settable using keys 2 - 3).
Power 1 = minimum level - Power 5 = maximum level.

SET H2O TEMPERATURE
Set the boiler temperature between 65 and 80 °C (using buttons 4 to 65).

CIRCULATOR PUMP OPERATION
The pump activates water circulation when the temperature of the water inside the stove reaches approx. 60°C. As the pump always functions above 60°, an always-open heating area is recommended to make product functioning homogenous, avoiding overheating blocks. Normally this area is defined "Safety zone".

ROOM TEMPERATURE (in models where provided)
front ventilation can be activated/deactivated and room temperature can be verified by means of the room probe (standard). (See chapter "enable fan" in the following pages.)

BURN POT CLEANING
While working, the stove has an internal counter which cleans the burn pot after a set amount of time.
This phase will be shown on the display, it will bring the stove to a lower power level and will increase the flue gas motor for a programmed amount of time. When the cleaning phase is finished, the stove will continue work going back to the selected power level.

MODULATION and H-OFF
As the temperature nears the setpoint, the boiler starts modulation, automatically setting itself at minimum power.
If the temperature increases exceeding the setpoint, it will automatically switch off indicating **H-OFF** and will automatically switch on again once the temperature returns below the setpoint.

SWITCH-OFF
Press key 1 for three seconds.
When the operation has been performed, the appliance automatically enters the switch- off phase, blocking the supply of pellets.
The flue exhaust motor and the hot air ventilation motor will remain on until the temperature of the stove has dropped below the factory parameters.

RE-IGNITION
The stove can be automatically and manually switched on only when the cooling cycle conditions and the set timer are met.

ADDITIONAL THERMOSTAT

N.B. : Installation must be performed by an authorised technician

It is possible to thermostat a room adjacent to the room where the stove is positioned: just connect a thermostat following the procedure described in the next point (it is recommended to position the optional mechanical thermostat at a height of 1.50m from the ground). Stove functioning with the external thermostat connected in the STBY clamp can be different on the basis of the activation or deactivation of the STBY function.
The STBY clamp leaves the factory jumpered, therefore it is always with closed contact (on request).

ADDITIONAL THERMOSTAT FUNCTIONING WITH STBY ACTIVE

When the STBY function is activated, the -o/-o LED flashes. When the contact or external thermostat is not satisfied (open contact/temperature reached), the stove will switch off. As soon as the contact or external thermostat passes to the "not satisfied" status (closed contact/temperature to reach) it will re-ignite.
Note: stove functioning depends on the temperature of the water inside the same and relative factory restrictions set. If stove is in H OFF mode (water temperature reached), any additional contact or thermostat request will be ignored.

ADDITIONAL THERMOSTAT OPERATION WITH DEACTIVATED STBY

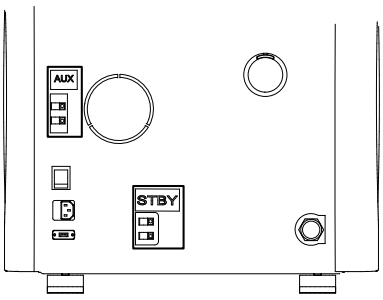
When the STBY function is deactivated, the -o/-o LED is fixed.
When the contact or external thermostat is not satisfied (open contact/temperature reached), the stove will go to minimum. As soon as the contact or external thermostat passes to the "not satisfied" status (closed contact/temperature to reach) the stove will start to work again at the pre-set power.
Note: stove functioning depends on the temperature of the water inside the same and relative factory restrictions set. If stove is in H OFF mode (water temperature reached), any additional contact or thermostat request will be ignored.

ADDITIONAL THERMOSTAT INSTALLATION

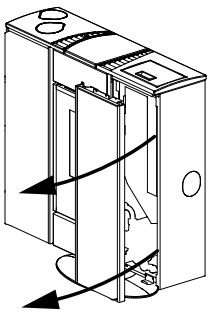
- Switch the appliance off using the master switch positioned on the rear of the stove.
- Remove the plug from the socket.
- Refer to the electrical layout to connect the two thermostat cables onto the relative clamps positioned don the rear of the machine, one is red and the other black (STBY clamp). **Every model can have a different position of the relative clamps in the rear of the machine. The image is given as an example.**

FOR STANDBY ACTIVATION, REFER TO THE "USER MENU" CHAPTER

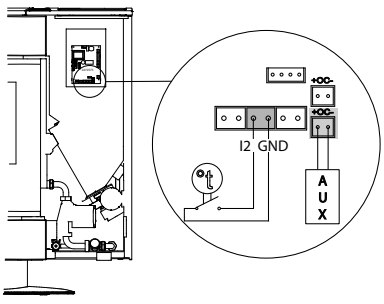
The STBY and AUX clamps, found at the back of the stove (except for the Elisir Model), can be noted in the diagram at the side



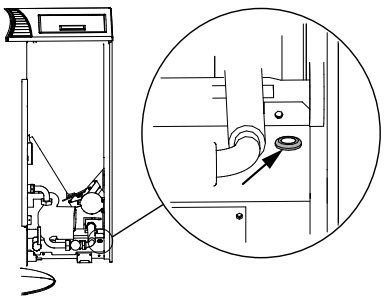
Follow the instructions described below for the connection to the STBY and AUX clamps. **Remove the right panel**



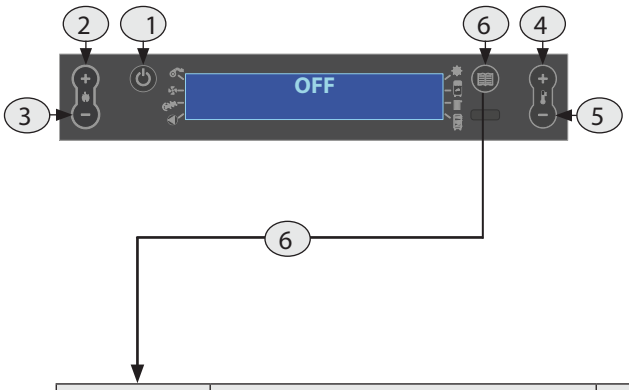
Follow the instructions described below for the connection to the STBY and AUX clamps. **Remove the right panel**



Pass the STBY and AUX wiring through the indicated cable gland



USER MENU



1 GO BACK - EXIT

2 3 BROWSE PARAMETERS: NEXT (2); PREVIOUS (3)

4 5 MODIFY SETTING DATA: INCREASE (4); DECREASE (5)

6 CONFIRM - ACCESS MENU

Menu	SCROLLING TEXT	VALUE	FUNCTION
SET CLOCK	DAY	MON...SUN	Setting the day of the week
	HOURS	00...24	Adjustment of the hour
	MINUTES	00...59	Adjustment of the minutes
	DATE	1...31	Adjustment of the date
	MONTH	1...12	Adjustment of the month
	YEAR	00...99	Adjustment of the year
SET CHRONO	ENABLE CHRONO	OFF	Activation/deactivation of the weekly programmer
	START - PRG1	OFF - 00:00	Time 1st ignition
	STOP - PRG1	OFF - 00:00	Time 1st switch-off
	MONDAY PRG1 OFF ...SUNDAY PRG1 OFF	ON/OFF	Ignition/switch-off consents for various days
	SET PRG1	65 - 80°C	Temperature setting for the 1st time span
	START - PRG2 00:10	OFF - 00:00	Time 2st ignition
	STOP - PRG2 00:10	OFF - 00:00	Time 2st switch-off
	MONDAY PRG2 OFF ...SUNDAY PRG2 OFF	ON/OFF	Ignition/switch-off consents for various days
	SET PRG2	65 - 80°C	Setting room temperature for the 2st time span
	START - PRG3 00:10	OFF - 00:00	Time 3st ignition
	STOP - PRG3 00:10	OFF - 00:00	Time 3st switch-off
	MONDAY PRG3 OFF ...SUNDAY PRG3 OFF	ON/OFF	Ignition/switch-off consents for various days
	SET PRG3	65 - 80°C	Setting room temperature for the 3st time span
	START - PRG4 00:10	OFF - 00:00	Time 4st ignition
	STOP - PRG4 00:10	OFF - 00:00	Time 4st switch-off
	MONDAY PRG4 OFF ...SUNDAY PRG4 OFF	ON/OFF	Ignition/switch-off consents for various days
	SET PRG4	65 - 80 °C	Setting room temperature for the 4st time span
LANGUAGE	ITAL - ENGL - DEUT - FRAN - ESPA		Selecting the language
USER	*SET THERMOSTAT	OFF.. ..06°C..40°C	Room temperature setting for front air fan
	*ENABLE FAN	ON/OFF	Enable/disable the motor functioning of the front air fan
	DISPLAY	OFF - 10...31	Selecting display brightness
	PELLET	-30...+20 %	Selecting the percentage of pellet feed
	*V1- FAN	+ / - 10%	Front ventilation percentage selection
	STAND - BY	OFF - ON	Activation or deactivation of the stand-by function
	KEYS LOCKED	OFF - ON	Activation or deactivation of the keys locked function
	RESET	OFF - ON	Indicates the values that can be modified by the user as by default

***in the models envisioned**

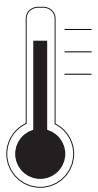
USER MENU

SET THERMOSTAT

The following menu allows (**in models where provided**) setting the room temperature for those products equipped with front air fan. Once the set temperature is reached, the fan will set itself to the minimum.
The possible settings are: OFF - 06 ...40°C. The room temperature will be displayed alternately with the water temperature.

CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Use keys 4-5 to select the room temperature.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.

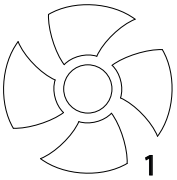


ENABLE FAN

This menu allows (**in models where provided**) enabling or disabling tangential motor operation

CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Press key 2 until "**ENABLE FAN**" is displayed.
- Use keys 4-5 to enable/disable ventilation.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.

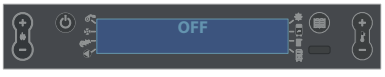


DISPLAY

This menu allows to regulate the brightness of the display. The possible settings are from OFF - 10 to 31.
By activating OFF, the backlit display shall turn off after a set delay.
The backlight will turn on again upon pressing a button or when the machine enters in alarm mode.

CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Press key 2 until "**DISPLAY**" is displayed.
- Use keys 4-5 to enable/disable ventilation brightness.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.



PELLET FEED ADJUSTMENT

The following menu allows the adjustment of pellet feed as a percentage.
If the stove has functioning problems owing to the quantity of pellets, adjust pellet feeding directly from the control board.
The problems correlated to the amount of fuel can be divided into 2 categories:

NO FUEL:

- the stove can never develop a suitable flame, tending to remain very low even at high powers.
- at minimum power the stove tends to almost switch-off taking the stove into "**NO PELLETS**" alarm condition.
- when the stove displays the "**NO PELLETS**" alarm, there may be non-burned pellets inside the burn pot.

EXCESS FUEL:

- the stove develops a very high flame even at low power.
- the panoramic glass is very dirty, obscuring it almost totally.
- the burn pot tends to become encrusted, blocking the holes for air intake due to the excessive pellet feed, as it is only burned partially.

The regulation to be performed is a percentage. Therefore a modification of this parameter will lead to a proportional variation of all stove feeding speeds. Feeding is from -30% to +20%.

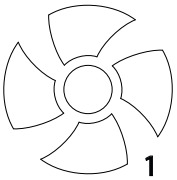
Follow the procedure on the display to perform this adjustment:

CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Press key 2 until "**PELLET**" is displayed.
- Use key 4 to increase and 5 to decrease the load during the WORK phase.
- Press key 6 to confirm and 1 to return to the previous menus back to the initial status.

V1-FAN

This menu allows (**in models where provided**) adjusting the front fan speed percentage.

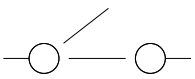
CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Press key 2 until "**V1 FAN**" is displayed.
- Use keys 4 to increase and 5 to decrease
- Press key 6 to confirm and 1 to return to the menu back to the initial status.



STAND-BY

The Stby function is used if immediate stove switch-off or modulation via additional external thermostat is desired.

CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Press key 2 until "**STAND BY**" is displayed.
- Use keys 4-5 to enable/disable.
- Press key 6 to confirm and 1 to return to the menu back to the initial status.



KEYS LOCKED

The menu allows to lock the display keys (like mobile phone). Press keys 1 and 5 simultaneously.
With the function activated, "**KEYS LOCKED**" will appear every time a key is pressed.

CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Press key 2 until "**KEYS LOCKED**" is displayed.
- Use keys 4-5 to enable/disable.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.

RESET

Allows to reset all values modifiable by the user to the default values. The modified data are:

CONTROLS PROCEDURE
- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "**USER**" is displayed
- Press key 6.
- "**SET THERMOSTAT**" will appear
- Press key 2 until "**RESET**" is displayed.
- Use keys 4-5 to select **ON** and press key 6.
- The word " **DONE**" will be displayed to confirm

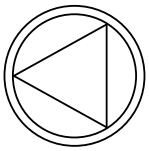
- SET H2O = 75°C
- SET TEMPERATURE = 35°C
- SET POWER = 5
- ENABLE CHRONO = OFF
- START PRG1=OFF
- STOP PRG1 = OFF
- MONDAY PRG1 = OFF
- .....all chrono parameters OFF
- PELLET = 00%
- STAND BY = OFF

AIR DISCHARGE

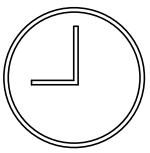
This function allows venting any air in the stove. Upon activating the function: The indicator lights of the circulators will light up on the display. (the pumps will be powered for 15 minutes and 30 seconds and then will stop for 30 seconds; cut the power to interrupt)

CONTROLS PROCEDURE

- Press keys 1 and 4 simultaneously.
- You will be prompted to enter the password.
- Enter code "77", using key 4
- Confirm using key 6.



CHRONO



The chrono allows to program 4 time spans within a day to use every day of the week.
The switch-on and switch-off time can be set in every time span. along with the days of use of the programmed time span and the desired H2O temperature (65 - 80°C).

RECOMMENDATIONS
The ignition and switch-off times must be within the arc of one day, from 0 to 24 and not over several days:
Before using the chrono function, set the current day and time. Therefore check that the points listed in the "*Set clock*" sub-chapter have been followed, so that the chrono function works. Aside from programming it, activate it as well.

Example:

Switch-on time 07:00 **CORRECT**
Switch-off time 18:00

Switch-on time 22:00 **INCORRECT**
Switch-off time 05:00

PROGRAMMING EXAMPLE

Let's suppose that the weekly programmer function is to be used and 4 time periods are to be used in the following way:
1st time period: from 08:00 to 12:00 every day of the week excluding Saturday and Sunday
2nd time span: from 15:00 to 22:00 only on Saturdays and Sundays, both times with a 75°C water temperature setpoint

The display will show the various programming steps.

CONTROLS PROCEDURE:

SET CLOCK

Press the key 6, set clock WILL APPEAR.
Press key 2 until "**SET CHRONO**" is displayed.

SET CHRONO

1ST TIME PERIOD SWITCH-OFF
Use buttons 4-5 to enter the time "**12:00**", which corresponds to the switch-off time of the 1st time period.
To confirm and continue programming, press button 6. Press button 3 to go back to the previous parameter.

STOP PRG1 12:00

ENABLE CHRONO
Press key 6, **ENABLE CHRONO** and **OFF** will appear.
Press key 4 to activate or deactivate the **CHRONO** function. Select **ON**.

ENABLE CHRONO ON

ENABLE 1ST TIME PERIOD DAYS
Use keys 4 and 5 to enable/disable the days, 2 and 3 to scroll through the days; the day of the week will be displayed followed by **OFF**
select from Monday to Fridat in **ON**, excluding Saturday and Sunday (OFF)

MONDAY..PRG1 ON-OFF

Press key 6 to confirm and continue programming.
START PRG1 OFF will appear.

START PRG1 OFF

SET H2O TEMPERATURE 1ST TIME SPAN
Press key 6 to confirm and continue programming.
Use keys 4-5 to select the desired **H2O** temperature.
(65-80°C)

Press key 6 to confirm and continue.

SET PRG1 75°C

1ST TIME PERIOD SWITCH-ON
Use keys 4-5 to enter the time "**8:00**", which corresponds to the switch-on time of the 1st time period.
To confirm and continue programming, press button 6. Press button 3 to go back to the previous parameter.

START PRG1 08:00

2ND TIME PERIOD SWITCH-ON
At this point, the second time period must be programmed.

The sequence to be followed is the same and is repeated as for the 1ST TIME PERIOD SWITCH-ON.

START PRG2 OFF

*2ND TIME PERIOD SWITCH-ON
At this point, the second time period must be programmed.
The sequence to be followed is the same and is repeated as for the 1ST TIME PERIOD SWITCH-ON.
On this occasion it is only necessary to enter the time, for example start at 15:00 and Stop at 22:00 and to activate the days Saturday and Sunday by setting them at "ON".

WHEN THE WEEKLY PROGRAMMER IS ACTIVE, A BOX OF THE RELATIVE ICON WILL APPEAR ON THE CONTROL BOARD.

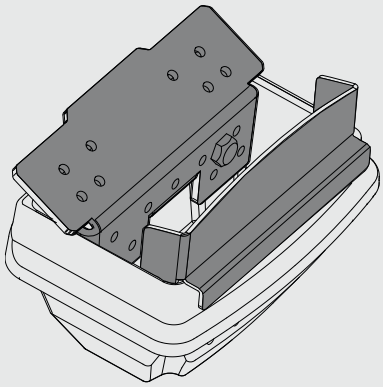
CLEANING UNDER USER'S RESPONSIBILITY

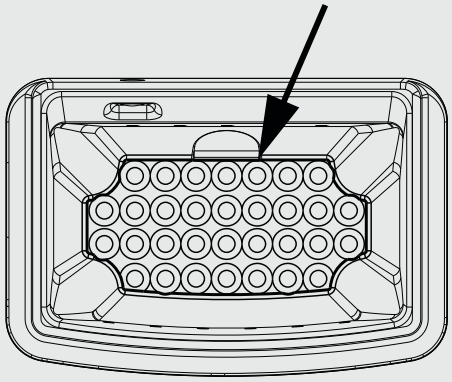
Some images could be offset from the original model.

DAILY

Burn pot:

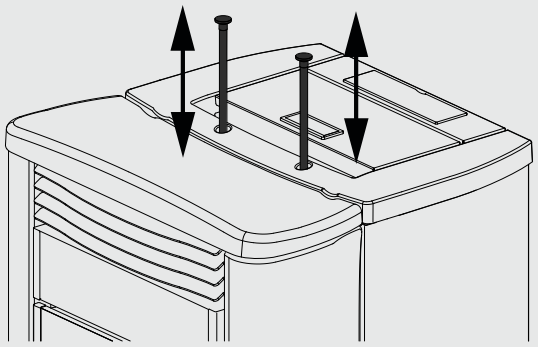
remove the burn pot from the relevant compartment and free the holes using the appropriate fire irons supplied, remove the ash from the burn pot using a suction device.
Suck the ash deposited in the brazier compartment.





Scrapers:

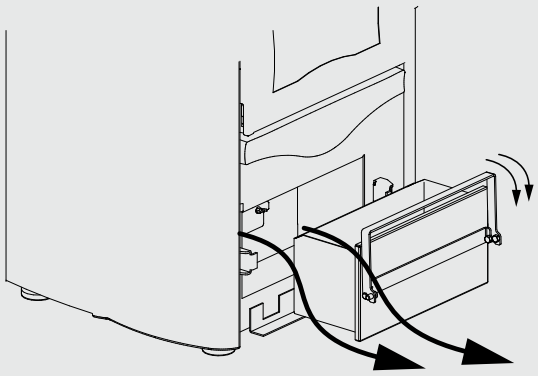
Cleaning of the heat exchangers allows to guarantee constant heat output through time. This type of maintenance must be performed at least once a day. To do this, just use the relevant scrapers positioned in the upper part of the stove, moving them up and down several times.



WEEKLY

Cleaning the ash drawer:

Empty the ash drawer every week or when required.
It is therefore recommended to remove the ash in the combustion chamber at least once a week using a suitable suction device.

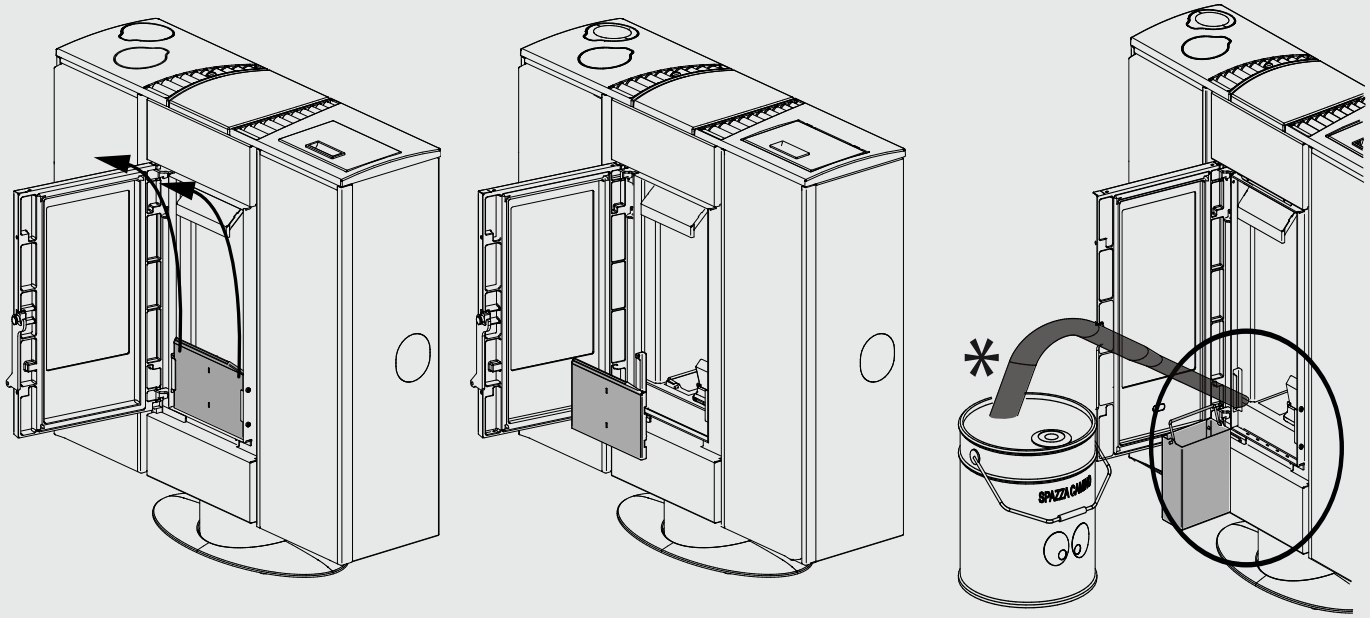


CLEANING UNDER USER'S RESPONSIBILITY

Some images could be offset from the original model.

MONTHLY

For the model in the picture below it is recommended to remove the deflector to facilitate cleaning the chamber and the ash drawer



MAKE SURE THAT THE ASH IS COMPLETELY COLD BEFORE EMPTYING IT INTO A SUITABLE CONTAINER. * THE "CHIMNEY SWEEP" BIN IS AN ACCESSORY AVAILABLE FROM THE COMPANY.

ROUTINE MAINTENANCE

In order to guarantee proper functioning and safety of the device, the operations indicated below must be performed every season or more often when necessary.

DOOR, ASH DRAWER AND BURN POT GASKETS

The gaskets guarantee the tightness of the stove and its consequent good functioning.
These must be checked regularly: if they should be worn or damaged they must be replaced immediately.
These operations must be carried out by a qualified technician.

CONNECTION TO THE FLUE

Suck and clean the pipe that leads to the flue yearly or anytime that it is necessary. If there are horizontal tracts the residues must be removed before they can obstruct flue passage.

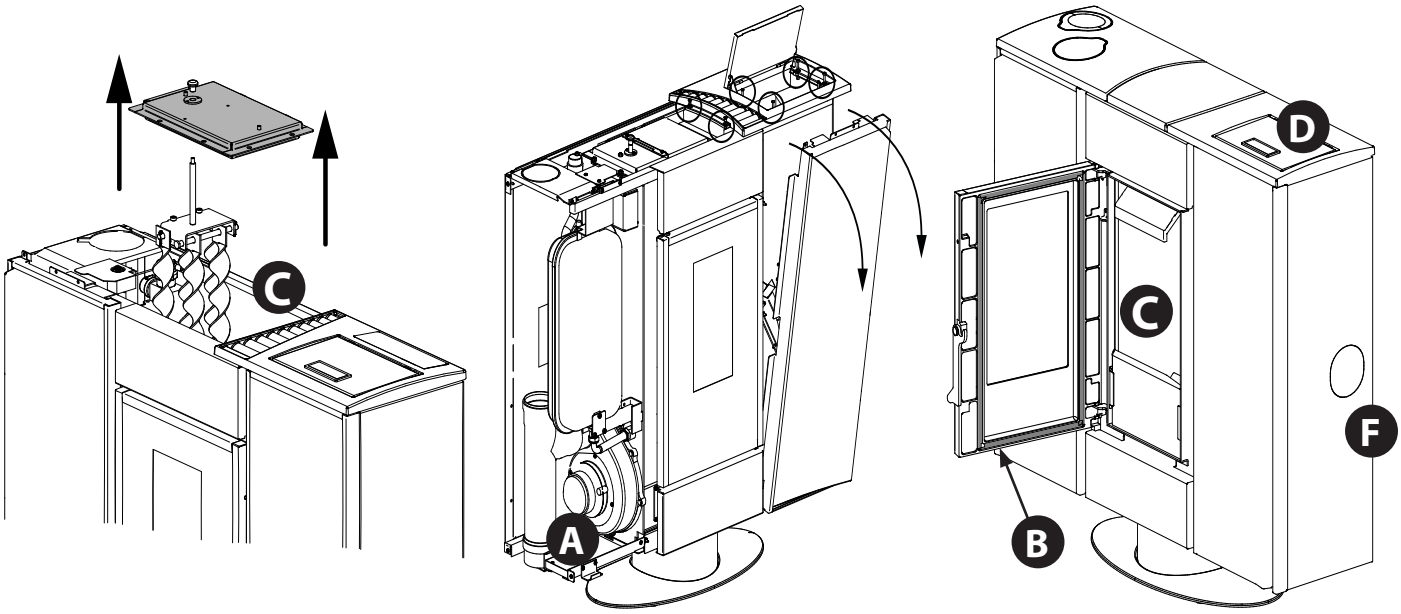
NON-CLEANING JEOPARDISES SAFETY.

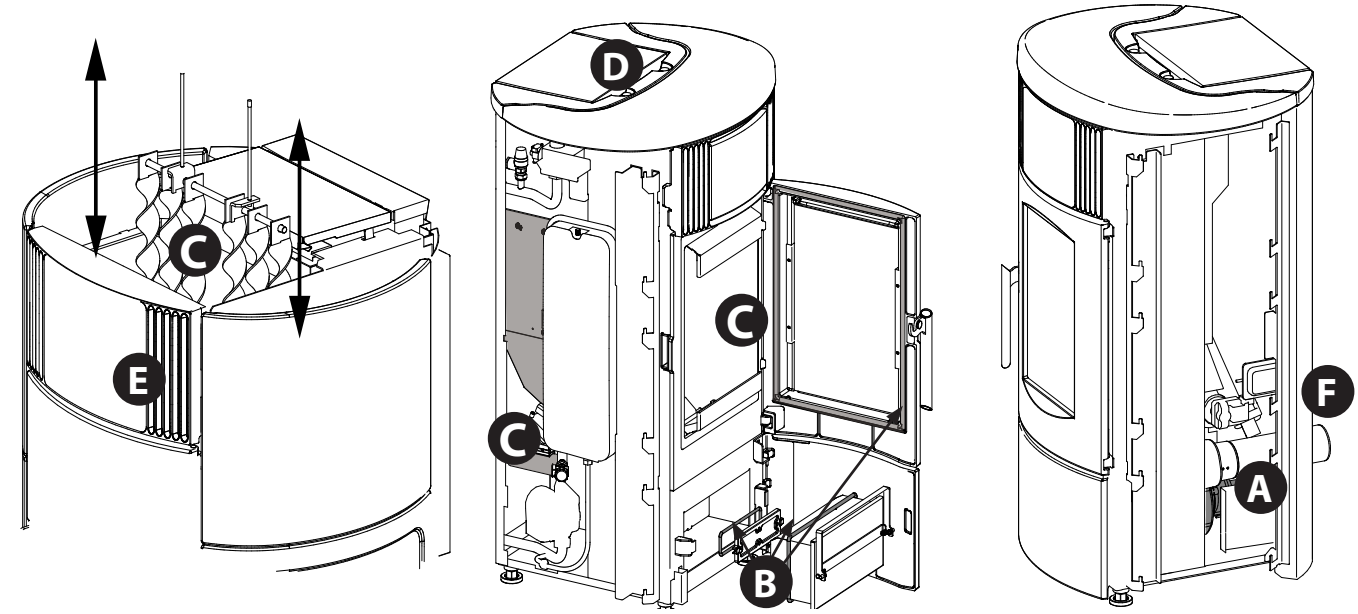
IF THE POWER SUPPLY CABLE IS DAMAGED, IT MUST BE REPLACED BY THE AFTER-SALES SERVICE OR BY A SIMILARLY QUALIFIED PERSON, SO AS TO AVOID AL RISKS.

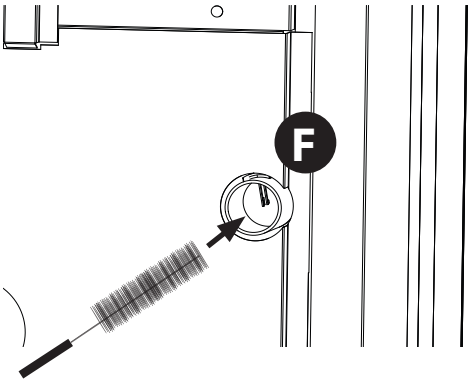
FOR CORRECT FUNCTIONING, THE STOVE MUST UNDERGO ROUTINE MAINTENANCE BY A QUALIFIED TECHNICIAN, AT LEAST ONCE A YEAR.

ROUTINE MAINTENANCE

Some images could be offset from the original model.







A	Fumes motor (disassembly and cleaning and fumes pipe and "T"), new silicone in the provided points	☑
B	Inspections of gaskets, ash drawer and door (replace them and apply silicone where envisioned)	☑
C	Combustion chamber and heat exchanger (full cleaning) including ignition-plug pipe	☑
D	Feed box (complete emptying and cleaning).	☑
E	*Room air fan disassembly and removal of dust and debris of any pellets	☑
F	Check air intake pipe and cleaning of the flow sensor	☑

DISPLAYS		
DISPLAY	**REASON**	**MEANING**
START	The start phase is in progress	_
PELLET FEEDING	the continuous feeding of the pellets during the ignition phase is in progress	_
IGNITION	The ignition phase is in progress	
START-UP	The start-up phase is in progress	_
BURN POT CLEANING	The automatic burn pot cleaning is in progress	_
FINAL CLEANING	The final cleaning is in progress	_
STAND-BY COOLING	Start-up attempt while the stove is still in cooling mode	Every time the stove displays one of the alarms listed above it will switch-off automatically. The alarm can only be released using button 1 when it switch-off has been completed. The stove can only be switched back on when it completely cold
WORK	The normal operating phase is in progress, the stove is operating at the set power	-
MODULATION	the stove is operating at minimum	-
STAND - BY	Stove off waiting for re-ignition due to an external thermostat	The stove will only re-start when the external thermostat will request it
STDBY-BLACK OUT	The stove is cooling after a power cut.	Once cooling is complete, it will automatically ignite
ROOM T	Displays room temperature (in the models where provided)	-
HOFF	Stove off due to water temperature over set	As soon as the water temperature drops below the set parameters, the stove will switch back on
ANTI-FREEZE	The anti-freeze function is in progress as the H2O t° is below the factory set threshold	the pump is active until the water reaches the pre-set factory parameter +2°C
ANTILOCK	The pump anti-locking function is in progress (only if the stove has been in Off status for at least 96 hours)	the circulator is activated for the amount of time set by the manufacturer to prevent it from locking

ALARMS

DISPLAY	EXPLANATION	SOLUTION
	Indicates the presence of an alarm.	On: indicates the presence of an alarm Flashing: indicates the deactivation of the depression sensor. The alarm can be reset by pressing key 1 for 3 seconds only if the fumes motor has stopped and if 15 minutes have passed from when the alarm was displayed.
ASPIRATION FAULT	Fumes motor fault	Contact after-sales centre
FUMES PROBE	Fumes probe failure.	Contact after-sales centre
HOT FUMES	High flue gas temperature	Verify pellet feed (see "Pellet feed regulation"). If the problem cannot be solved, contact an authorised technician.
NO FLOW ALARM ALL CLEAN CHECK UP	The door is not closed correctly. The ash drawer is not closed correctly. The combustion chamber is dirty. The flue exhaust pipe is blocked.	Check hermetic door closure. Check hermetic closure of the ash drawer. Ensure that the fumes pipe, primary air duct and combustion chamber are clean.
NO IGNITION	The pellet feed-box is empty. Pellet feed calibration inadequate.	Check for the presence of pellets in the feed-box. Adjust pellet flow (see "Pellet feed adjustment"). Check the procedures described in the "Ignition" chapter.
NO IGNITION BLACK OUT	No current during the ignition phase.	Take the stove to OFF conditions using key 1 and repeat the procedure described in the "Ignition" chapter.
NO PELLETS	The pellet feed-box is empty. No pellet feed. The motor reducer does not feed pellets.	Check for the presence of pellets in the feed-box. Adjust pellet flow (see "Pellet feed adjustment").
DEPR ALARM	The door is not closed correctly. The ash drawer is not closed correctly. The combustion chamber is dirty. The flue exhaust pipe is blocked	Check hermetic door closure. Check hermetic closure of the ash drawer. Check cleanliness of the fumes pipe and the combustion chamber.
DEBIMETER FAULT	Faulty flow sensor. Sensor disconnected	Contact after-sales centre
H20 OVERTEMPERA- TURE	The water in the stove has exceeded 95°C. Possible air in the system. Insufficient circulation. No or inadequate safety zone. Possible circulator anomaly.	Contact after-sales centre
MINIMUM PRESSURE ALARM	The system pressure read by the pressure switch is too low. Possible presence of air in the system. Possible lack of water or leaks due to anomalies in some system component.	Contact after-sales centre
H2O PROBE ALARM	H2O probe failure	
MAX H2O PRESSURE ALARM	The pressure of the water has exceeded the max threshold	Check that the expansion vessels are not damaged or under-dimensioned Check that the cold system is loaded at the correct pressure

WARRANTY CONDITIONS

EXTRAFLAME S.p.A., with offices in via dell'Artigianato 12 Montecchio Precalcino (VI), guarantees this product for 2 (two) YEARS from purchase date for manufacturer and material faults. The warranty becomes void in case the defect of conformity is not filed with the dealer within two months from date of its finding.

The responsibility of EXTRAFLAME S.p.A. is limited to the supply of the appliance, which must be perfectly installed, following the indications contained in the appropriate manuals and books provided with the purchased product and in compliance with the laws in force. **Installation must be performed by qualified staff, under the responsibility of the person entrusting him, who will assume complete responsibility for the definitive installation and consequent good functioning of the product installed. EXTRAFLAME S.p.A. cannot be held responsible for the failure to comply with such precautions.**

WARNING

THE WARRANTY IS VALIDATED ON THE CONDITION THAT:
The installation and relative connections of the plant have been carried out by professionally authorised staff in total compliance with the Standard in force (M.D. n.37 dated 22 January 2008), in compliance with the Standards in force, both national and regional, as well as these instructions.
Testing has been carried out by a qualified technician, who assumes the entire responsibility to have verified that the plant has been realised in compliance with the Standard in force, by professionally qualified staff, in compliance with the Standards in force and to have checked the good functioning of the installed product. Once this has been verified, the after-sales centre will supply all the information for its correct use, filling in and delivering a copy of the document which certifies the warranty, undersigned by the client.
EXTRAFLAME S.p.A. assures that all its products are manufactured with top quality materials and with manufacturing techniques which guarantee total efficiency. If during normal use of the product, defective or badly working particulars should be detected, the replacement of such particulars will be free of charge, ex dealer who made the sale.

TERRITORIAL EXTENSION OF THE WARRANTY:
Italian territory

VALIDITY
THE WARRANTY IS CONSIDERED VALID ON THE CONDITION THAT:
1. The purchaser forwards the**inspection report and warranty validation (copy 2)** filled-in completely, within 8 days from the date of validation of the warranty. The purchase date must be validated by the possession of a valid fiscal document issued by the dealer.
2. The appliance is used as prescribed in the instructions manual provided with all products.
3. The boiler is installed, in compliance with the Standards in force with regard to the prescriptions contained in the installation, use and maintenance manual relating to the product, by qualified staff in possession of the legal requisites (M.D. n.37 dated 22 January 2008);
4. The client is in possession of the documentation which certifies its eligibility, filled-in in all its parts:
   A. INSTALLATION REPORT: filled-in by the installer
   B. INSPECTION REPORT AND VALIDATION OF THE WARRANTY:

Filled out by the client, dealer and a qualified technical assistance centre.
5. The warranty document, filled-in and accompanied by the purchase fiscal document issued by the dealer, must be kept and shown to the authorised technician in the event of intervention.

THE WARRANTY IS NOT CONSIDERED VALID IN THE FOLLOWING CASES
1. The warranty conditions described above have not been respected.
2. Installation has not been performed with respect to the Standards in force regarding the provisions described in the manual/book provided with the appliance.
3. Negligence of the customer due to lack of or incorrect maintenance of the product.
4. Presence of electric and/or hydraulic plants that do not comply with the standards in force.
5. Damages deriving from atmospheric, chemical, electro-chemical agents, improper use of the product, modifications and tampering with the product, inefficacy and/or unsuitability of the flue and/or other causes not deriving from the manufacture of the product.
6. Combustion of materials not compliant with the types and quantities indicated in the manual/book supplied
7. All damages caused by transport. It is therefore recommended to carefully check the goods on receipt, immediately informing the dealer of any damage, making a note on the transport document and on the carrier's copy.

EXTRAFLAME S.p.A. is not liable for any damage that can, directly or indirectly, affect persons, objects and pets as a consequence

of failure to comply with the prescriptions indicated in this manual/book.

ALL PARTICULARS SUBJECT TO NORMAL WEAR ARE NOT COVERED BY WARRANTY:

This category includes:

- The gaskets, all ceramic or toughened glass, coverings and cast iron or Ironker grids, the painted, chrome or gold-plated details, the majolica, the handles and the electric cables.
- Colour variations, crackles and slight size differences f the majolica parts are not a reason for claims, as they are natural features of the materials themselves.
- Parts in refractory material
- Masonry work
- The system particulars for the production of domestic hot water not supplied by EXTRAFLAME S.p.A. (water products only).
- The heat exchanger is excluded from the warranty unless an adequate anti-condensate circuit is realised, which guarantees a minimum return temperature of the appliance of at least 55°C (only water products).

FURTHER CLAUSES:

The warranty also excludes any calibration or regulation interventions of the product in relation to the type of fuel or the type of installation.
The warranty is not extended if particulars are replaced.
No compensation will be paid for the time the product is inefficient.
This warranty is valid only for the purchaser and cannot be transferred.

WARRANTY INTERVENTIONS

The request for intervention must be sent to the dealer or after sales assistance Centre.
The warranty intervention envisions the repair of the appliance without any charge, as provided by the law in force.

LIABILITY

EXTRAFLAME S.p.A. does not grant any compensation for direct or indirect damage caused or depending on the product.

LAW COURT

The Vicenza Law Court is elected as the competent court for any disputes.

Extraflame®

Riscaldamento a Pellet

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Extraflame reserves the right to vary the features and data shown in this booklet at any time and without prior notice, in order to improve its products.
This manual cannot be considered as a contract for third parties.

This document is available at *www.extraflame.it/support*